



Thank you for purchasing the "Roughneck Crude Oil" Trading System

Four "Roughneck Crude Oil" System files are included in this archive:

Rough.doc	This file you are now reading
Rough.txt	The file in Text Format
RN.ela	The Tradestation System ela file
CL.lng	15 years of continuous contract, back-adjusted, day session only, Crude Oil futures data.

(If you are not using Tradestation or SuperCharts,
the system rules are very simple and should be easy to code into any software)

The System Documentation below contains the following information:

"Roughneck Crude Oil" TRADING SYSTEM (Report Word Format)

Introduction
Historical Results
Equity Chart
System Rules
System Concept

Tradestation Easy Language code in text form

Instructions for "Transfer in" to TradeStation & SuperCharts & Import to TradeStation 2000i
Instructions for Inserting Analysis Techniques
Instructions for Cut and Paste to PowerEditor
Trade by Trade Report

"ROUGHNECK" CRUDE OIL TRADING SYSTEM

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Introduction

We view the energy complex and Crude Oil in particular as highly liquid (no pun intended) and one of the most potentially profitable futures trading vehicles. The Crude Oil market has a history of trending strongly and frequently in both directions with surprisingly orderly price movements. To add to this basic appeal, every now and then there are potential production problems or political events that create some extraordinary opportunities for major price changes. What more could we ask from a market?

Major price advances are supported by the fact that the world must continue to consume vast quantities of oil regardless of the price. Everyone surely remembers the infamous "oil embargo" and more recently the dramatic price run up just prior to the Gulf War. But the Crude Oil market is very much a two sided affair and that is one of the reasons we like to trade it. Occasional periods of over production in one part of the world or another can often drive prices downward as fast as they rise during a shortage.

The "Roughneck" Crude Oil trading system is our second system in the energy complex and we plan to be adding more energy trading systems in the future. We believe that the Roughneck System complements

our Wildcat System nicely. Although both systems are trend-following in nature, the Roughneck System exits quicker and does a much better job of trading the short side of the market. Although it is not considered a frequent trader by any standards, the Roughneck System trades more than twice as often as the Wildcat System.

Our historical test data from 10/17/88 through 12/31/98 shows 78% winning trades for the Roughneck with 49 winners out of 59 trades. Thanks to the previously mentioned orderliness of the Crude Oil futures market these gains were achieved with unusually low risk. The system showed an average losing trade of about \$730.00 and a total maximum drawdown of only \$2810. Our testing results showed 8 consecutive winners and only 2 consecutive losers.

We believe these outstanding hypothetical results demonstrate that the Roughneck Crude Oil System will be a solid addition to our multiple-system approach to energy trading.

Historical Results

Table 1 shows the historical results of trading one contract on the system tested over 10 years of data from October 1988 to December of 1998. "MaxBarsBack" in TradeStation was set to 50 bars. "MaxBarsBack" refers to the number of bars of data necessary to accumulate sufficient data to calculate the rules in a system before valid trading signals can be generated. The stated test period includes the MaxBarsBack period so this means that no trades will be taken for the first 50 trading days in our data. We started our data in October so that the first trade would be generated early in 1989 after allowing 50 bars in 1988 without any trades.

For testing purposes, we used continuous back-adjusted daily data provided by Pinnacle Data Corp. The data used was for the regular day session only. \$100 was deducted from every trade to simulate the effects of commissions and slippage. No allowance was made for the cost of rollovers that might be required in actual trading.

Table 1. Roughneck System Historical Results (Hypothetical 10/17/88 - 12/31/98)

Performance Summary: All Trades

Total net profit	\$43,100.00	Open position P/L	\$- 850.00
Gross profit	\$56,410.00	Gross loss	\$- 13,310.00
Total # of trades	59	Percent profitable	78%
Number winning trades	46	Number losing trades	13
Largest winning trade	\$6,370.00	Largest losing trade	\$-1100.00
Average winning trade	\$1,226.30	Average losing trade	\$- 1023.85
Ratio avg win/avg loss	1.20	Avg trade(win & loss)	\$730.51
Max consec. winners	8	Max consec. losers	2
Avg # bars in winners	16	Avg # bars in losers	11
Max intraday drawdown	\$- 2,810.00		
Profit factor	4.24	Max # contracts held	1
Account size required	\$2,810.00	Return on account	1534%

Performance Summary: Long Trades

Total net profit	\$30,720.00	Open position P/L	\$0.00
Gross profit	\$39,630.00	Gross loss	\$- 8,910.00
Total # of trades	43	Percent profitable	79%
Number winning trades	34	Number losing trades	9
Largest winning trade	\$6,370.00	Largest losing trade	\$- 1,100.00
Average winning trade	\$1,165.59	Average losing trade	\$- 990.00
Ratio avg win/avg loss	1.18	Avg trade(win & loss)	\$ 714.42
Max consec. winners	11	Max consec. losers	1
Avg # bars in winners	15	Avg # bars in losers	9
Max intraday drawdown	\$- 1900.00		
Profit factor	4.45	Max # contracts held	1
Account size required	\$1,900.00	Return on account	1617%

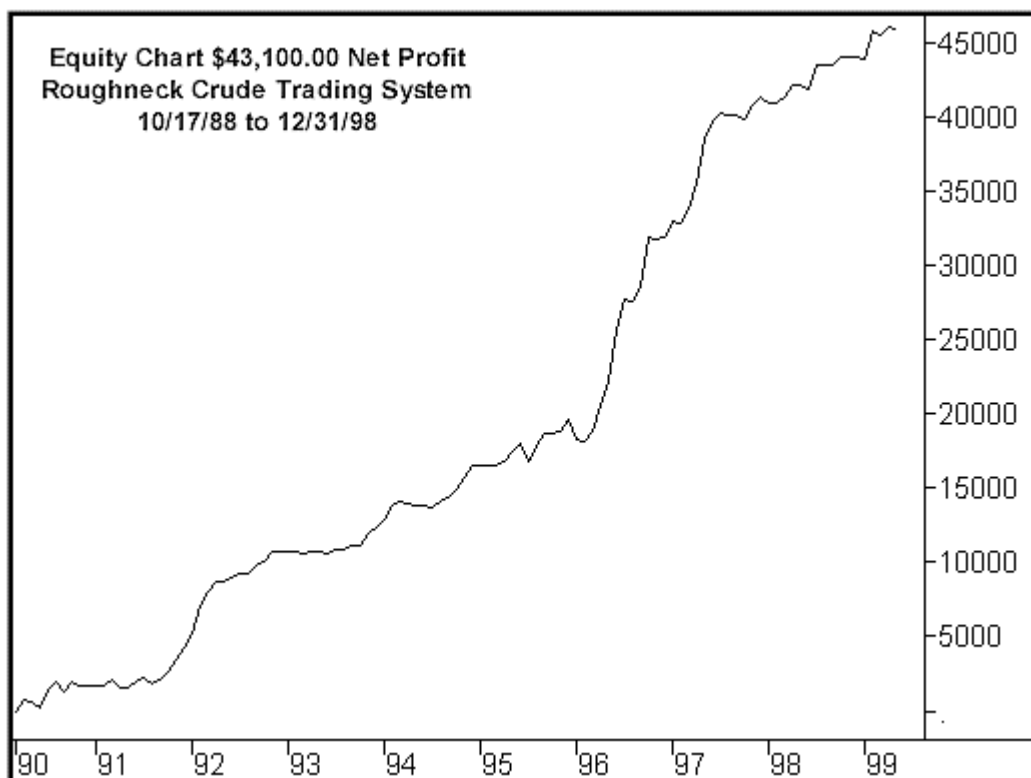
Performance Summary: Short Trades

Total net profit	\$12,380.00	Open position P/L	\$- 850.00
Gross profit	\$16,780.00	Gross loss	\$4,400.00
Total # of trades	16	Percent profitable	75%
Number winning trades	12	Number losing trades	4
Largest winning trade	\$3,480.00	Largest losing trade	\$- 1,100.00
Average winning trade	\$1,398.33.00	Average losing trade	\$- 1,100.00
Ratio avg win/avg loss	1.27	Avg trade(win & loss)	\$ 773.75
Max consec. winners	6	Max consec. losers	2
Avg # bars in winners	20	Avg # bars in losers	15
Max intraday drawdown	\$- 2,750.00		
Profit factor	3.81	Max # contracts held	1
Account size required	\$2,750.00	Return on account	450%

The hypothetical performance data above was generated using Omega TradeStation, with \$100 deducted per trade for commissions and slippage. In our opinion, the "account size required" and "return on account" calculations may not accurately reflect the actual account size required to trade this system nor the return to be expected. Past performance is not necessarily indicative of future results.

HYPOTHETICAL OR SIMULATED PERFORMANCE RESULTS HAVE CERTAIN INHERENT LIMITATIONS. UNLIKE AN ACTUAL PERFORMANCE RECORD, SIMULATED RESULTS DO NOT REPRESENT ACTUAL TRADING. ALSO, SINCE THE TRADES HAVE NOT ACTUALLY BEEN EXECUTED, THE RESULTS MAY HAVE UNDER-OR-OVER COMPENSATED FOR THE IMPACT, IF ANY, OF CERTAIN MARKET FACTORS SUCH AS LACK OF LIQUIDITY. SIMULATED TRADING PROGRAMS IN GENERAL ARE ALSO SUBJECT TO THE FACT THAT THEY ARE DESIGNED WITH THE BENEFIT OF HINDSIGHT. NO REPRESENTATION IS BEING MADE THAT ANY ACCOUNT WILL OR IS LIKELY TO ACHIEVE PROFITS OR LOSSES SIMILAR TO THOSE SHOWN.

Equity Chart



Long Entry Rules

To go long in the Crude Oil market, the following conditions must be met:

1. The 10 day average of the lows must be higher than the 20 day average of the lows.
2. The 20 day average of the lows must be at least .25 higher today than it was 10 days ago.
3. Today's close must be 1.5 Average True Ranges greater than the lowest low of the last 8 days. (We use 45 days to calculate the ATR.)

If these three conditions are met, then buy tomorrow on a stop at the highest high of the last four days.

Long Exit Rules

After a long trade has been entered, place a sell stop at whichever of the stop orders are closest to the current market price.

1. Place a stop order \$1000.00 below the entry price.
2. If we have been in the trade for less than four days and the trade is at a loss, then place a stop order at the lowest low of the last 5 days. (Do not include the day of entry in the count of the number of days in the trade. In TradeStation the day after the entry day is considered day 1 of the trade.)
3. When the highest close of the trade is 100 points above our entry, then place a sell stop 40 points above our entry price. (This stop is intended to protect small winning trades on the long side and keep them from turning into losses. A similar exit rule is not used on short trades because the short trades tend to whipsaw much more than the long trades.)
4. When the highest low since entering the trade reaches 2 Average True Ranges above our entry point, place a sell stop at the lowest low of the last 4 days.
5. When the highest low since entering the trade reaches 4 Average True Ranges above our entry point, place a sell stop at the lowest low of the last 3 days.
6. When the highest low since entering the trade reaches 5 Average True Ranges above our entry point, place a sell stop at yesterday's low.

Short Entry Rules

The short entry rules are similar to the long entry. To go short in the Crude Oil market the following conditions must be met:

1. The 10 day average of the highs must be below the 20 day average of the highs.
2. The 20 day average of the highs must be at least .25 lower today than it was 10 days ago.
3. Today's close must be 2.0 Average True Ranges lower than the highest high of the last 3 days. (We use 45 days to calculate the ATR.)

If these three conditions are met, then sell short tomorrow on a stop at the lowest low of the last four days.

Short Exit Rules

The short exits are similar but not identical to the long side exits. After a short trade has been entered, place a sell stop at whichever of the stop orders are closest to the current market price.

1. A stop order at \$1000.00 above the entry price or
2. If we have been in the trade for less than four days and the trade is at a loss, then place a stop order at the highest high of the last 6 days. (Do not include the day of entry in the count of the number of days in the trade. In TradeStation the day after the entry day is considered day 1 of the trade.)
3. When the lowest high since entering the trade reaches 2 Average True Ranges below our entry point, place a buy stop at the highest high of the last 8 days.
4. When the lowest high since entering the trade reaches 4 Average True Ranges below our entry point, place a buy stop at the highest high of the last 2 days.
5. When the lowest high since entering the trade reaches 6 Average True Ranges below our entry point, place a buy stop at yesterday's high.

System Concepts and Logic

Direction of Entry

We are doing something new in the way of trend identification in this system. We are using moving averages of the lows to tell us when the trend is up and we are using moving averages of the highs to tell us when the trend is down. The assumption is that when the trend is up the lows will be getting higher and when the trend is down the highs will be getting lower. Almost any means of identifying the intermediate trend would probably work just as well but we thought our clients might appreciate a little creativity in our methods of looking at trends.

Timing of Entry

Once the intermediate trend direction has been established by our moving averages of highs and lows we then apply a short term channel breakout to trigger our precise entry. When used independently, short term channel breakouts are not very reliable but when combined with our novel setup conditions the four-day channel breakout proved to be an extremely dependable entry trigger. Seventy-eight percent winning trades is very encouraging and should make this system very easy to follow. (Skip trades only at your own risk.) We also observed that the Roughneck system seems to fare much better than the Wildcat System in the occasional "V" shaped patterns. We believe this superior performance on short trades is because the system is not relying on the ADX which tends to lag whenever there are sharp reversals of direction. Many of the best short trades begin with a spike at the top. By combining the two systems in our multiple systems approach we should do very well trading both long and short over intermediate and long term time frames. We still need a short-term system for the energy markets and hope to be able to add one in the near future.

Getting the trade started in the right direction

One of the noteworthy features of the Roughneck System is that there is a stringent requirement that the trade should start moving in the anticipated direction within the first few days. It has been a common observation among futures traders that the best trades seem to become profitable right away. We tried to incorporate part of that logic in our exits. If a new trade is unprofitable on a closing basis in any of the four days immediately after the entry, a very tight exit is implemented. For example if we enter a long position on Monday and the trade closes with a loss on Tuesday thru Friday we will try to limit our losses by implementing a very tight stop at the lowest low of the last 5 days.

In most of our systems we would start a new trade with a much wider stop (maybe a 20 day channel) trying to give it plenty of room to become a winner. However the entries in the Roughneck System are accurate enough that we can afford to focus on cutting our losses sooner rather than later without reducing our very high winning percentage.

Profit Taking Exits

As soon as a new trade becomes profitable the trailing stops start closing in rapidly. As the profits get larger the stops ratchet in closer and closer to lock in a greater percentage of the open profits. To make the system as adaptive as possible most of the profit thresholds are measured in units of Average True

Range. This allows the system to adapt the exits appropriately as the volatility of the market contracts and expands. Crude Oil futures often go through very quiet periods where profit objectives expressed in a constant number of dollars or points might be out of reach. At other times when the market is extremely volatile, profit thresholds expressed in a specified number of dollars or points might be much too close and we could miss the opportunity for some truly extraordinary profits. By measuring our profit thresholds in units of Average True Range we allow the thresholds to contract and expand as necessary to maximize our potential profits. When big profits are possible we will be looking for big winners. When only modest profits are attainable we will be happy to see that the system is locking in small gains.

Finally we have a \$1000 money management stop that becomes active whenever our adaptive exits are too far away to adequately protect our precious trading capital.

Weaknesses of the System

We had a difficult time finding any major weaknesses in this system. Like most high winning percentage systems it doesn't trade as often as we would like. (The Roughneck makes only about six trades per year.) Also, it is a trend-following breakout type of system and we have grown fond of systems that buy on dips rather than on breakouts. Since this is a basic trend-following system we would not expect it to be profitable in long periods of sideways price action. We will have to build another system specifically designed to trade profitably in the sideways periods.

A complete bundle of multiple systems for the energy complex is still a work in progress. This particular system catches small and intermediate term trends and compliments the Wildcat System which was designed to catch the bigger long-term trends. We still need a short term counter-trend system and a system that works well in sideways markets.

Conclusion

In the design of this system we have combined a few novel ideas with some of our best-tested and reliable favorites. This highly adaptive system is capable of capturing either large or small profits in both rising and falling markets. We think it is a well designed system that has not been overly curve fit. The system is based on simple and logical concepts that incorporate the basic principals of profitable trend-following. We expect the Roughneck Crude Oil System to be an important part of our multiple-system strategy and a consistent performer in the years to come.

Some Practical Advice on Implementing the System

Our testing data used continuous contracts and made no provision for the cost or price effects of rollovers. If you haven't traded Crude Oil before you should be aware that these contracts trade each month of the year and will expire much sooner than you might expect. For example; the May contract expires in the middle of April. Be sure to check with your broker about last trading days before you put on a trade. Since the average winning trade is expected to last about sixteen market days or three weeks, new positions should be implemented in the second contract month rather than in the nearby contract so that it may not be necessary to roll it forward.

The system might also be run using continuous contracts but it would still require close attention to contract expiration dates.

We would suggest a minimum account size of \$5,000 per contract.

Easy Language Code for TradeStation

{Roughneck Crude Oil Trading System
By Chuck Le Beau and David Elden Copyright 1999
<http://traderclub.com> for equity chart and trade by trade reports go to
http://traderclub.com/systems_roughneck.htm}

Condition1= Average(l,10) > Average(l,20);

Condition3= Average(l,20) > Average(l,20)[10] + .25 ;
Condition5=C>= Lowest(l,8) + 1.5 * AvgTrueRange(45);

Condition2= Average(h,10)< Average(h,20);
Condition4= Average(h,20)< Average(h,20)[10] - .25 ;
Condition6= C<= Highest(h,3) - 2 * AvgTrueRange(45) ;

if MarketPosition<>1 then begin

if Condition1 and Condition3 and Condition5 then buy ("Breakout ") Highest(H,4) Stop;
end;

if MarketPosition=1 then begin

if BarsSinCeEntry < 4 and C < EntryPriCe then ExitLong("L Tight") Lowest(L,5) Stop;
if MaxTradeLow > EntryPrice + 2 * AvgTrueRange(45) then ExitLong("L Ch2") Lowest(L,4) Stop;
if MaxTradeLow > EntryPrice + 4 * AvgTrueRange(45) then ExitLong("L Ch3") Lowest(L,2) Stop;
if MaxTradeLow > EntryPrice + 5 * AvgTrueRange(45) then ExitLong("L Ch6") Lowest(L,1) Stop;
if MaxTradeClose>= EntryPrice + 100 Points then ExitLong("L Points") EntryPrice + 40 Points Stop;
end;

if MarketPosition<>-1 then begin

if Condition2 and Condition4 and Condition6 then sell ("Breakdown ") Lowest(l,4) Stop;
end;

if MarketPosition=-1 then begin

if BarsSinceEntry < 5 and C > EntryPrice then ExitShort(" S Tight") Highest(h,6) Stop;
if MinTradeHigh< EntryPrice- 2 * AvgTrueRange(45) then ExitShort("S Ch1") Highest(h,8) Stop;
if MinTradeHigh< EntryPrice- 4 * AvgTrueRange(45) then ExitShort("S Ch4") Highest(h,2) Stop;
if MinTradeHigh< EntryPrice- 6 * AvgTrueRange(45) then ExitShort("S Ch6") Highest(h,1) Stop;
if MinTradeClose<= EntryPrice - 120 Points then ExitShort("S Points") EntryPrice - 80 Points Stop;
end;

{moneymanagement \$1,000.00 maxbars back 50}

INSTRUCTIONS FOR "TRANSFER IN" TO TRADESTATION (From TradeStation 4.0 Help File)

When you receive a disk or CD that contains an indicator, a ShowMe or PaintBar study, a trading system, or a function in ELA file format, do not use the Windows Explorer, the Windows File Manager, or the DOS COPY command to copy these analysis techniques into TradeStation. Instead, you must use TradeStation's transfer feature.

To transfer an analysis technique into TradeStation from another directory, a disk, or a CD, when it is in the ELA file format, use the following steps:

1. Use the Tools - QuickEditor menu sequence to access the QuickEditor.
2. Click the Transfer button to produce the Transfer Analysis Techniques dialog.
3. Click the Transfer analysis techniques FROM Easy Language Archive file radio button to transfer in analysis techniques.
4. Click on OK to produce the Transfer from archive file dialog.
5. In the From edit box, enter the complete path name for and the name of the Easy Language Archive file (.ELA) from which you want to transfer the analysis techniques. Enter the path name and file name using one of the following methods:
 - a) If you have previously transferred files, TradeStation remembers where the ELA files were located and lists the ELA file names in the From drop-down list. Choose an ELA file from the drop-down list.
 - b) In the From edit box, type in the drive letter, the correct path name, and the ELA file name. For example, C:\TEMP\SYSTEMS, where C: is the drive letter, TEMP is the directory path name, and SYSTEMS is the ELA file name TradeStation is to create.
 - c) Click on the Browse button to access the standard Windows Open dialog, in which you can choose the directory and the ELA file that contains the analysis techniques you want to transfer in. Once you specify the file and click OK, the information is placed in the From edit box.
 - d) Click the Scan button to have TradeStation scan any drive you specify for existing ELA files. Any ELA files found are placed in the From drop-down list. You can then choose the ELA file that contains the analysis techniques you want to transfer in from the drop-down list.
6. Once you enter the information in the From edit box, click on OK to produce the Transfer dialog.
7. Click on the radio button for the type of analysis technique you want to transfer into TradeStation. You may transfer in only one type of analysis technique at a time, unless you select Transfer All and transfer in all the analysis techniques found in the ELA file. If the radio button for a particular type of analysis technique is dimmed (grayed-out), it means TradeStation did not find that type of analysis technique in the ELA file you specified.
8. Once you select either the specific analysis technique type or Transfer All, click on OK.

a) If you selected Transfer All, TradeStation begins transferring in the analysis techniques contained in the ELA file you specified. If an analysis technique with the same name as one you are transferring in already exists in TradeStation, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

OR

b) If you selected a specific type of analysis technique, the Transfer analysis technique type dialog appears.

Click on as many analysis techniques as you want to transfer in; this highlights the technique. To deselect an analysis technique, click on it again.

Once you have highlighted the analysis techniques you want to transfer in, click on OK. TradeStation begins transferring the analysis techniques from the ELA file into TradeStation. If an analysis technique with the same name as one you are transferring in already exists in TradeStation, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

9. When TradeStation is finished transferring the analysis techniques in from the ELA file, you are returned to the QuickEditor. Click Close to return to TradeStation.

You can now insert the analysis technique into your TradeStation chart. For information on inserting the different analysis techniques into your chart window, refer to the sections that cover indicators, ShowMe

and PaintBar studies, and trading systems. How to work with user functions is covered in the Easy Language User's Manual.

INSTRUCTIONS FOR LOADING SYSTEMS INTO SUPERCHARTS 4.0

(Older versions do not use the Ela format and cannot use this technique. See below for versions prior to 4.0)

(From SuperCharts 4.0 Help File)

When you receive a disk or CD that contains an indicator, a ShowMe or PaintBar study, a trading system, or a function in ELA file format, do not use the Windows Explorer, the Windows File Manager, or the DOS COPY command to copy these analysis techniques into SuperCharts. Instead you must use SuperCharts transfer feature.

To transfer an analysis technique into SuperCharts from another directory, a disk, or a CD, when it is in the ELA file format, use the following steps:

1. Use the Tools - QuickEditor menu sequence to access the QuickEditor.
2. Click the Transfer button to produce the Transfer Analysis Techniques dialog.
3. Click the Transfer analysis techniques FROM Easy Language Archive file radio button to transfer in analysis techniques.
4. Click on OK to produce the Transfer from archive file dialog.
5. In the From edit box, enter the complete path name for and the name of the Easy Language Archive file (.ELA) from which you want to transfer the analysis techniques. Enter the path name and file name using one of the following methods:
 - a) If you have previously transferred files, SuperCharts remembers where the ELA files were located and lists the ELA file names in the From drop-down list. Choose an ELA file from the drop-down list.
 - b) In the From edit box, type in the drive letter, the correct path name, and the ELA file name. For example, C:\TEMP\SYSTEMS, where C: is the drive letter, TEMP is the directory path name, and SYSTEMS is the ELA file name SuperCharts is to create.
 - c) Click on the Browse button to access the standard Windows Open dialog, in which you can choose the directory and the ELA file that contains the analysis techniques you want to transfer in. Once you specify the file and click OK, the information is placed in the From edit box.
 - d) Click the Scan button to have SuperCharts scan any drive you specify for existing ELA files. Any ELA files found are placed in the From drop-down list. You can then choose the ELA file that contains the analysis techniques you want to transfer in from the drop-down list.
6. Once you enter the information in the From edit box, click on OK to produce the Transfer dialog.
7. Click on the radio button for the type of analysis technique you want to transfer into SuperCharts. You may transfer in only one type of analysis technique at a time, unless you select Transfer All and transfer in all the analysis techniques found in the ELA file. If the radio button for a particular type of analysis technique is dimmed (grayed-out), it means SuperCharts did not find that type of analysis technique in the ELA file you specified.
8. Once you select either the specific analysis technique type or Transfer All, click on OK.
 - a) If you selected Transfer All, SuperCharts begins transferring in the analysis techniques contained in the ELA file you specified. If an analysis technique with the same name as one you are transferring in already exists in SuperCharts, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

OR

b) If you selected a specific type of analysis technique, the Transfer analysis technique type dialog appears.

Click on as many analysis techniques as you want to transfer in; this highlights the technique. To deselect an analysis technique, click on it again. Once you have highlighted the analysis techniques you want to transfer in, click on OK. SuperCharts begins transferring the analysis techniques from the ELA file into SuperCharts. If an analysis technique with the same name as one you are transferring in already exists in SuperCharts, a warning dialog will appear indicating that the duplicate analysis technique was not transferred.

9. When SuperCharts is finished transferring the analysis techniques in from the ELA file, you are returned to the QuickEditor. Click Close to return to SuperCharts.

You can now insert the analysis technique into your SuperCharts chart. For information on inserting the different analysis techniques into your chart window, refer to the sections that cover indicators, ShowMe and PaintBar studies, and trading systems. How to work with functions is covered in the Easy Language User's Manual.

INSTRUCTIONS FOR IMPORTING ANALYSIS TECHNIQUES IN TRADESTATION 2000I

We have supplied the code for the system in both ela, Tradestation 4.0 format and els TradeStation 200i format. Use the els file if you are importing into Tradestation 2000i, and be sure to select all, when prompted.

When importing analysis techniques, you can only import one ELA/ELS file at a time. Each ELA/ELS file may contain several analysis techniques. Once you specify the file to import, the wizard enables you to select individually each analysis technique you want import from the file. If the analysis technique already exists in your product, the analysis technique is not imported.

To import an EasyLanguage Archive/Storage file:

- 1 Use the File - Import and Export menu sequence to open the Import and Export Wizard.
- 2 Click Import EasyLanguage Archive File (ELA and ELS).
- 3 Click Next.
- 4 In the Select the location of your EasyLanguage Archive File box, enter the appropriate path and file name (e.g., C:\My Analysis Techniques\Indicators.els).

Note If you do not know the location and/or path of your EasyLanguage Archive file, you can scan or browse your hard drive. For more information, see Scanning Your Hard Drive for EasyLanguage Archive Files.

- 5 Click Next.
- 6 Select the categories of analysis techniques you want to import.

Note: Click Select All to select all analysis categories. Click Clear All to clear all categories so that you can reselect the appropriate categories.

- 7 Click Next.
- 8 Select the analysis technique(s) you want to import.

Note: Click Select All to select all analysis techniques. Click Clear All to clear all analysis techniques so that you can reselect the appropriate analysis techniques.

- 9 Click Finish.
- 10 When the importing process is complete, click OK.

INSTRUCTIONS FOR INSERTING ANALYSIS TECHNIQUES

Analysis techniques, which includes Indicators, ShowMe studies, PaintBar studies and trading systems, can be inserted only on an active chart window. To make a chart window active, simply click on it or use the Window menu.

Once your chart window is active, you can add an analysis technique to it in any of three ways: the Menu Sequence method, the Shortcut menu method, or the Indicator icon method. The following covers each of these three methods.

Using the Menu Sequence Method

Use the following directions to insert analysis techniques in your chart window using the menu sequence method:

1. Use the Insert - Analysis Techniques menu sequence to produce the Insert Analysis Techniques dialog, shown below. This dialog contains four tabs.

Insert Analysis Techniques dialog

2. Click on the appropriate tab to produce the corresponding dialog. For example, to insert an indicator, click the Indicator tab.
3. Select one analysis technique by clicking on it, or more than one analysis technique by holding down the CTRL key and clicking on the analysis techniques you wish to apply.

If you want to format the analysis technique (change inputs, color, style, scaling, and other properties) before it is plotted, click in the Format checkbox to place a check mark in the box. (To remove the check mark click again.)

4. Click the Plot button. You are returned to the chart window. The analysis has been applied to the chart.

If you chose to format your analysis technique before inserting it on the chart window, the Format analysis technique dialog is produced when you click the Plot button. After specifying the way you want the analysis technique to be displayed, click the OK button to insert the analysis technique and return to the chart window.

Using the Shortcut Menu Method

The following covers using the Shortcut menu method to insert an analysis technique in your chart.

1. Place the mouse pointer on any empty area of the chart window and click the right mouse button to produce the Shortcut menu shown below.

Chart window Shortcut menu

2. Select Insert Analysis Techniques to produce the Insert Analysis Techniques dialog.
2. Click on the appropriate tab to produce the corresponding dialog. For example, to insert an indicator, click the Indicator tab.
3. Select one analysis technique by clicking on it, or more than one analysis technique by holding down the CTRL key and clicking on the analysis techniques you wish to apply.

If you want to format the analysis technique (change inputs, color, style, scaling, and other properties) before it is plotted, click in the Format checkbox to place a check mark in the box. (To remove the check mark click again.)

4. Click the Plot button. You are returned to the chart window. The analysis has been applied to the chart.

If you chose to format your analysis technique before inserting it on the chart window, the Format analysis technique dialog is produced when you click the Plot button. After specifying the way you want the analysis technique to be displayed, click the OK button to insert the analysis technique and return to the chart window.

Roughneck Crude CL.LNG-Daily 10/17/88 - 12/31/98

Date	Time	Type	Cnts	Price	Signal Name	Entry	P/L	Cumulative
01/12/89		Buy	1	1.88	Breakout			
01/23/89		LExit	1	2.31	L Ch2	\$ 330.00	\$ 330.00	
02/03/89		Buy	1	2.32	Breakout			
03/08/89		LExit	1	3.26	L Ch2	\$ 840.00	\$ 1170.00	
03/14/89		Buy	1	4.18	Breakout			
04/05/89		LExit	1	5.36	L Ch2	\$ 1080.00	\$ 2250.00	
04/11/89		Buy	1	6.17	Breakout			
04/28/89		LExit	1	6.93	L Ch2	\$ 660.00	\$ 2910.00	
06/20/89		Buy	1	7.77	Breakout			
07/12/89		LExit	1	8.83	L Ch2	\$ 960.00	\$ 3870.00	
09/06/89		Buy	1	9.09	Breakout			
09/22/89		LExit	1	9.56	L Ch2	\$ 370.00	\$ 4240.00	
09/28/89		Buy	1	9.92	Breakout			
10/23/89		LExit	1	10.43	L Ch2	\$ 410.00	\$ 4650.00	
12/18/89		Buy	1	11.47	Breakout			
01/04/90		LExit	1	13.66	L Ch6	\$ 2090.00	\$ 6740.00	
01/12/90		Buy	1	13.83	Breakout			
01/16/90		LExit	1	12.83	Money M	\$ -1100.00	\$ 5640.00	
01/19/90		Buy	1	13.63	Breakout			
02/05/90		LExit	1	14.03	L Points	\$ 300.00	\$ 5940.00	
04/06/90		Sell	1	10.96	Breakdown			
04/23/90		SExit	1	10.16	S Points	\$ 700.00	\$ 6640.00	
04/27/90		Sell	1	9.45	Breakdown			
05/14/90		SExit	1	10.45	Money M	\$ -1100.00	\$ 5540.00	
06/19/90		Sell	1	6.88	Breakdown			
07/12/90		SExit	1	7.88	Money M	\$ -1100.00	\$ 4440.00	
07/23/90		Buy	1	9.71	Breakout			
08/07/90		LExit	1	16.04	L Ch6	\$ 6230.00	\$ 10670.00	
08/16/90		Buy	1	16.43	Breakout			
08/27/90		LExit	1	17.38	L Ch2	\$ 850.00	\$ 11520.00	
09/04/90		Buy	1	17.58	Breakout			
09/10/90		LExit	1	17.93	L Points	\$ 250.00	\$ 11770.00	
09/14/90		Buy	1	21.47	Breakout			
10/01/90		LExit	1	27.94	L Ch3	\$ 6370.00	\$ 18140.00	
10/08/90		Buy	1	28.57	Breakout			
10/10/90		LExit	1	28.97	L Points	\$ 300.00	\$ 18440.00	
04/10/91		Buy	1	16.55	Breakout			
04/18/91		LExit	1	16.95	L Points	\$ 300.00	\$ 18740.00	
05/07/91		Buy	1	17.96	Breakout			
05/13/91		LExit	1	17.36	L Tight	\$ -700.00	\$ 18040.00	
07/17/91		Buy	1	17.99	Breakout			
10/21/91		LExit	1	20.25	L Ch6	\$ 2160.00	\$ 20200.00	
11/01/91		Buy	1	20.04	Breakout			
11/07/91		LExit	1	19.63	L Tight	\$ -510.00	\$ 19690.00	
11/25/91		Sell	1	17.83	Breakdown			
12/30/91		SExit	1	15.61	S Ch4	\$ 2120.00	\$ 21810.00	
01/08/92		Sell	1	15.12	Breakdown			
02/06/92		SExit	1	16.12	Money M	\$ -1100.00	\$ 20710.00	
04/02/92		Buy	1	15.94	Breakout			
05/07/92		LExit	1	16.66	L Ch2	\$ 620.00	\$ 21330.00	
06/01/92		Buy	1	18.11	Breakout			
07/08/92		LExit	1	17.11	Money M	\$ -1100.00	\$ 20230.00	
11/05/92		Sell	1	16.39	Breakdown			
12/16/92		SExit	1	15.58	S Ch1	\$ 710.00	\$ 20940.00	

02/22/93	Buy	1	15.94	Breakout		
03/10/93	LExit	1	16.47	L Ch2 \$	430.00	\$ 21370.00
06/07/93	Sell	1	15.11	Breakdown		
06/24/93	SExit	1	14.12	S Ch4 \$	890.00	\$ 22260.00
07/02/93	Sell	1	13.39	Breakdown		
08/11/93	SExit	1	12.59	S Points\$	700.00	\$ 22960.00
11/09/93	Sell	1	10.61	Breakdown		
12/10/93	SExit	1	8.50	S Ch4 \$	2010.00	\$ 24970.00
02/02/94	Buy	1	9.00	Breakout		
02/09/94	LExit	1	8.00	Money M \$	-1100.00	\$ 23870.00
04/14/94	Buy	1	8.84	Breakout		
04/29/94	LExit	1	9.42	L Ch2 \$	480.00	\$ 24350.00
05/02/94	Buy	1	10.17	Breakout		
05/25/94	LExit	1	11.06	L Ch2 \$	790.00	\$ 25140.00
05/31/94	Buy	1	11.49	Breakout		
06/23/94	LExit	1	13.33	L Ch3 \$	1740.00	\$ 26880.00
07/01/94	Buy	1	13.64	Breakout		
08/04/94	LExit	1	14.84	L Ch2 \$	1100.00	\$ 27980.00
12/07/94	Sell	1	11.11	Breakdown		
12/27/94	SExit	1	12.11	Money M \$	-1100.00	\$ 26880.00
01/17/95	Buy	1	12.49	Breakout		
02/09/95	LExit	1	12.92	L Ch2 \$	330.00	\$ 27210.00
04/06/95	Buy	1	14.41	Breakout		
05/02/95	LExit	1	15.03	L Ch2 \$	520.00	\$ 27730.00
06/20/95	Sell	1	13.20	Breakdown		
07/26/95	SExit	1	12.68	S Ch1 \$	420.00	\$ 28150.00
08/22/95	Buy	1	13.58	Breakout		
09/20/95	LExit	1	14.17	L Ch2 \$	490.00	\$ 28640.00
11/17/95	Buy	1	14.44	Breakout		
12/11/95	LExit	1	15.12	L Ch2 \$	580.00	\$ 29220.00
12/14/95	Buy	1	15.59	Breakout		
01/10/96	LExit	1	16.67	L Ch3 \$	980.00	\$ 30200.00
03/06/96	Buy	1	17.37	Breakout		
03/27/96	LExit	1	20.35	L Ch6 \$	2880.00	\$ 33080.00
04/02/96	Buy	1	21.00	Breakout		
04/17/96	LExit	1	22.21	L Ch2 \$	1110.00	\$ 34190.00
04/23/96	Buy	1	23.46	Breakout		
04/30/96	LExit	1	22.46	Money M \$	-1100.00	\$ 33090.00
07/01/96	Buy	1	24.18	Breakout		
07/17/96	LExit	1	24.58	L Points\$	300.00	\$ 33390.00
08/16/96	Buy	1	26.06	Breakout		
09/16/96	LExit	1	28.34	L Ch3 \$	2180.00	\$ 35570.00
09/25/96	Buy	1	28.99	Breakout		
10/10/96	LExit	1	29.39	L Points\$	300.00	\$ 35870.00
10/15/96	Buy	1	30.46	Breakout		
10/29/96	LExit	1	29.46	Money M \$	-1100.00	\$ 34770.00
12/16/96	Buy	1	30.49	Breakout		
01/13/97	LExit	1	31.59	L Ch2 \$	1000.00	\$ 35770.00
02/07/97	Sell	1	29.22	Breakdown		
03/18/97	SExit	1	27.78	S Ch1 \$	1340.00	\$ 37110.00
05/15/97	Buy	1	27.66	Breakout		
06/03/97	LExit	1	26.66	Money M \$	-1100.00	\$ 36010.00
10/02/97	Buy	1	26.91	Breakout		
10/06/97	LExit	1	27.31	L Points\$	300.00	\$ 36310.00
01/06/98	Sell	1	21.71	Breakdown		
01/26/98	SExit	1	20.91	S Points\$	700.00	\$ 37010.00
02/02/98	Sell	1	21.50	Breakdown		
03/18/98	SExit	1	17.92	S Ch6 \$	3480.00	\$ 40490.00
06/09/98	Sell	1	17.55	Breakdown		
06/22/98	SExit	1	15.46	S Ch4 \$	1990.00	\$ 42480.00
09/21/98	Buy	1	16.68	Breakout		

10/08/98	LExit	1	15.68	Money M \$	-1100.00	\$ 41380.00
11/17/98	Sell	1	13.64	Breakdown		
12/14/98	SExit	1	11.82	S Ch4 \$	1720.00	\$ 43100.00
12/18/98	Sell	1	11.25	Breakdown		

To view an equity chart based on the above trades go to:

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Good luck and Good trading.